**Experiment 8**

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**Subject Name: Project Based Learning Subject Code: 22CSH-359 in Java with Lab**

1.EASY LEVEL:

<!DOCTYPE html>

<html>

<head>

<title>Login Page</title>

</head>

<body>

<form action="LoginServlet" method="post">

Username: <input type="text" name="username" required><br>

Password: <input type="password" name="password" required><br>

<input type="submit" value="Login">

</form>

</body>

</html>

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class LoginServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String username = request.getParameter("username");

String password = request.getParameter("password");

response.setContentType("text/html");

PrintWriter out = response.getWriter();

if ("admin".equals(username) && "1234".equals(password)) {

out.println("<h2>Welcome, " + username + "!</h2>");

} else {

out.println("<h2>Login failed! Try again.</h2>");

}

}

}

2. Medium level:

<!DOCTYPE html>

<html>

<head><title>Employee Search</title></head>

<body>

<form action="EmployeeServlet" method="get">

Enter Employee ID: <input type="text" name="id">

<input type="submit" value="Search">

</form>

</body>

</html>

import java.io.\*;

import java.sql.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class EmployeeServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String id = request.getParameter("id");

response.setContentType("text/html");

PrintWriter out = response.getWriter();

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection(

"jdbc:mysql://localhost:3306/yourDB", "root", "password");

Statement stmt = con.createStatement();

String query = "SELECT \* FROM employees";

if (id != null && !id.trim().isEmpty()) {

query += " WHERE id=" + id;

}

ResultSet rs = stmt.executeQuery(query);

out.println("<table border='1'><tr><th>ID</th><th>Name</th><th>Role</th></tr>");

while (rs.next()) {

out.println("<tr><td>" + rs.getInt("id") + "</td><td>" +

rs.getString("name") + "</td><td>" +

rs.getString("role") + "</td></tr>");

}

out.println("</table>");

} catch (Exception e) {

out.println("Error: " + e.getMessage());

}

}

}

3.Hard Level:

<html>

<head><title>Attendance Form</title></head>

<body>

<form action="AttendanceServlet" method="post">

Roll No: <input type="text" name="roll"><br>

Name: <input type="text" name="name"><br>

Date: <input type="date" name="date"><br>

Present: <input type="checkbox" name="status" value="Present"><br>

<input type="submit" value="Submit">

</form>

</body>

</html>

import java.io.\*;

import java.sql.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class AttendanceServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String roll = request.getParameter("roll");

String name = request.getParameter("name");

String date = request.getParameter("date");

String status = request.getParameter("status") != null ? "Present" : "Absent";

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection(

"jdbc:mysql://localhost:3306/yourDB", "root", "password");

PreparedStatement ps = con.prepareStatement("INSERT INTO attendance VALUES (?, ?, ?, ?)");

ps.setString(1, roll);

ps.setString(2, name);

ps.setString(3, date);

ps.setString(4, status);

ps.executeUpdate();

response.setContentType("text/html");

PrintWriter out = response.getWriter();

out.println("<h3>Attendance saved successfully!</h3>");

} catch (Exception e) {

e.printStackTrace();

}

}

}

CREATE TABLE attendance (

roll VARCHAR(20),

name VARCHAR(50),

date DATE,

status VARCHAR(10)

);